

FIG. 1

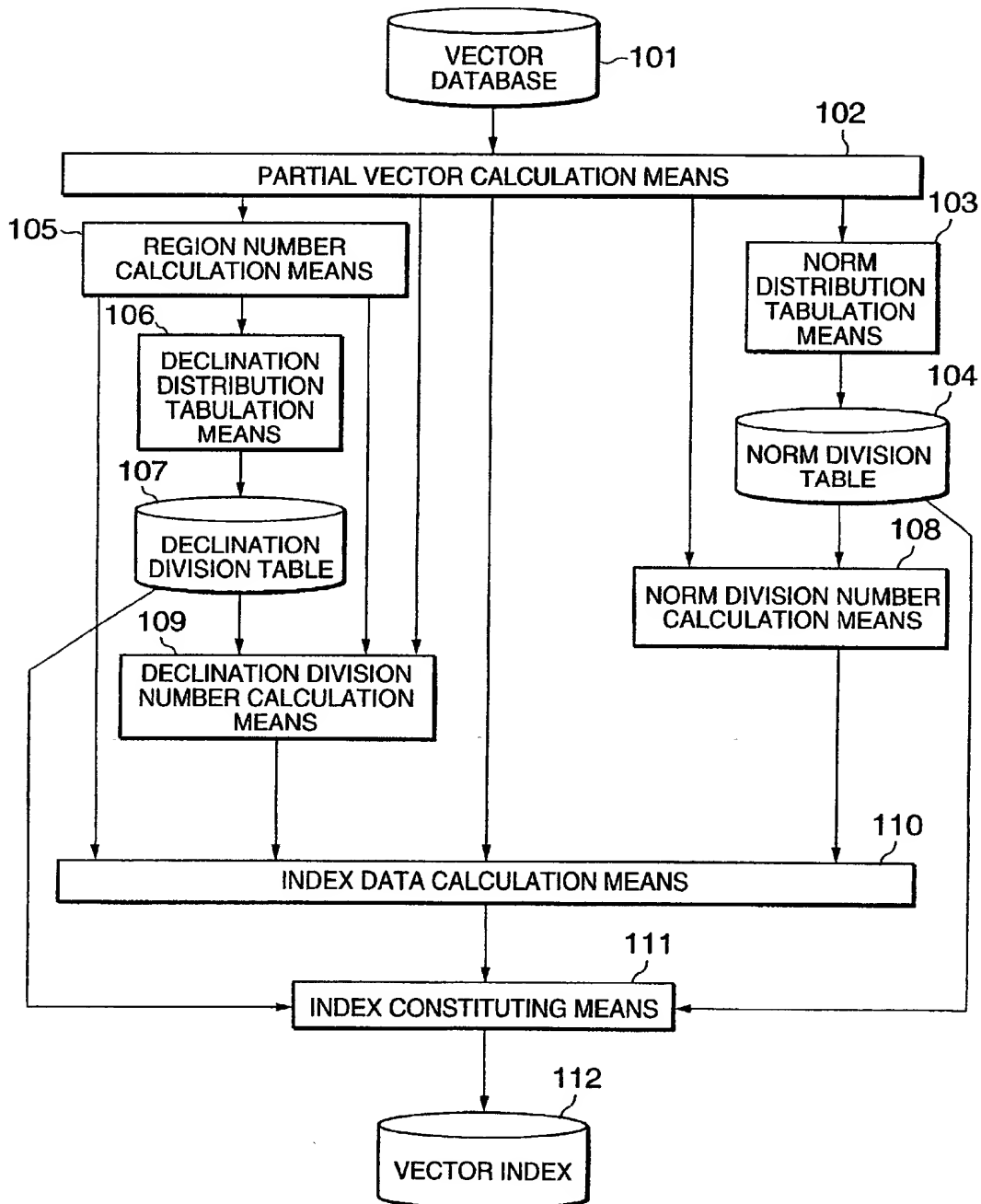


FIG.2

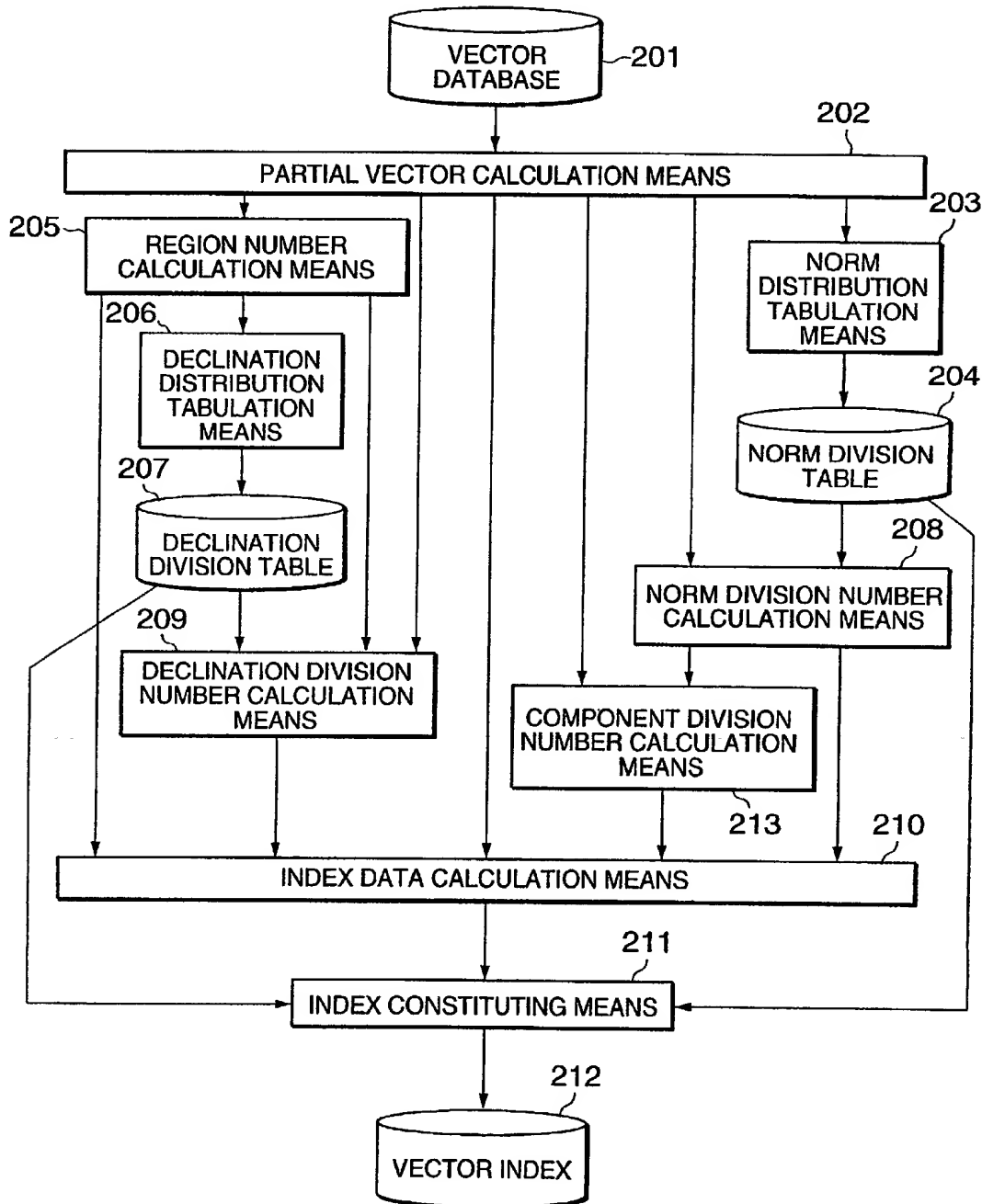


FIG.3

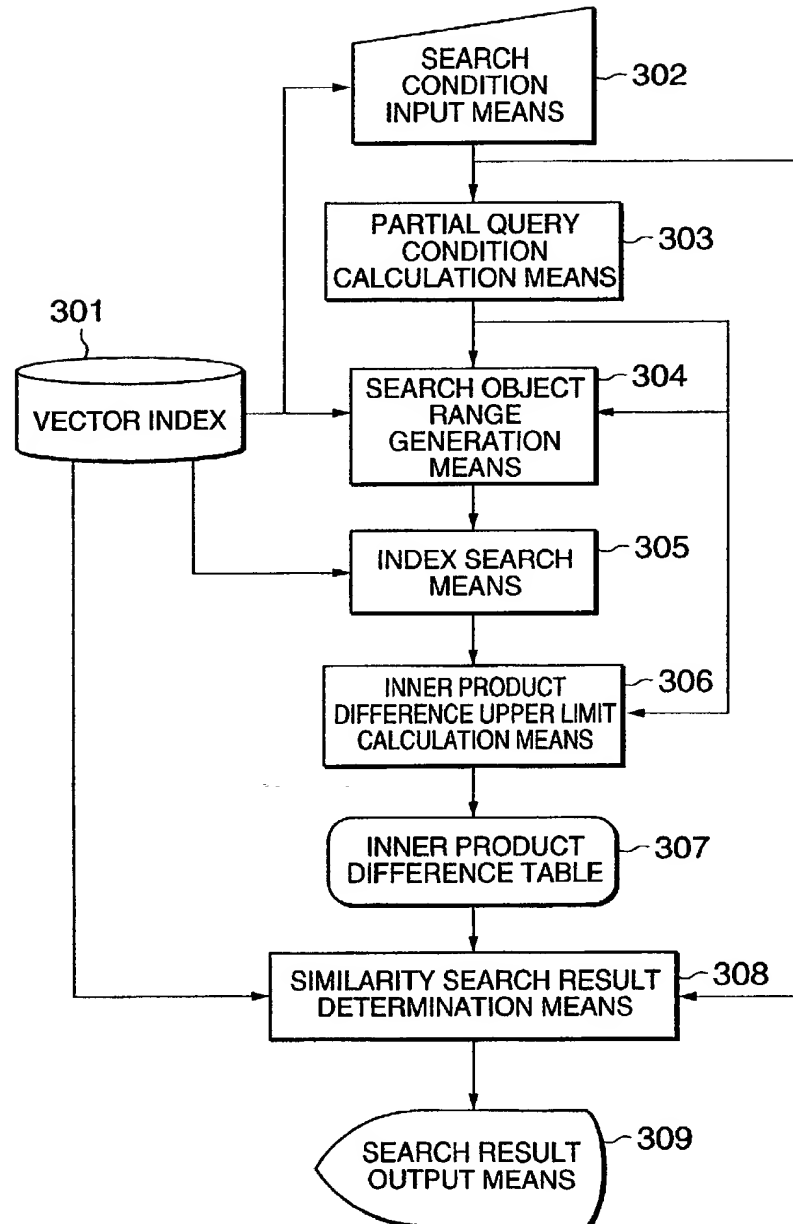


FIG.4

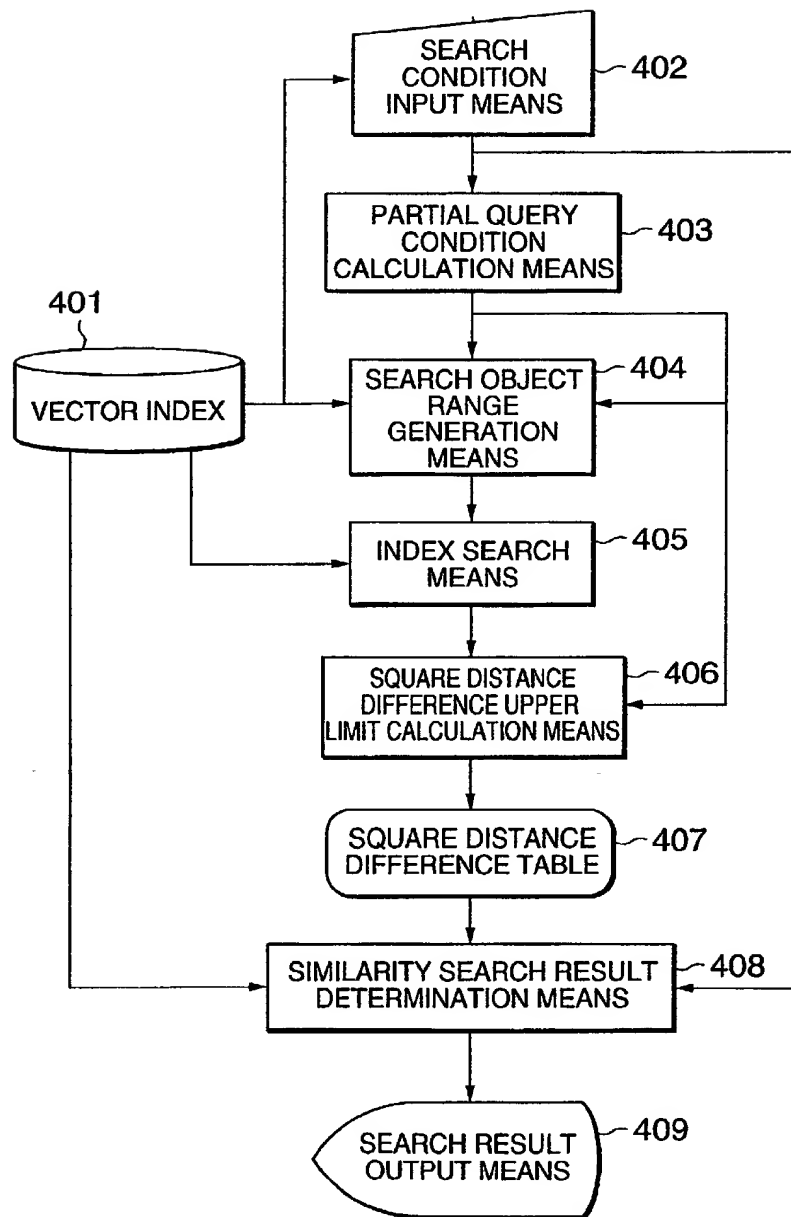


FIG.5A

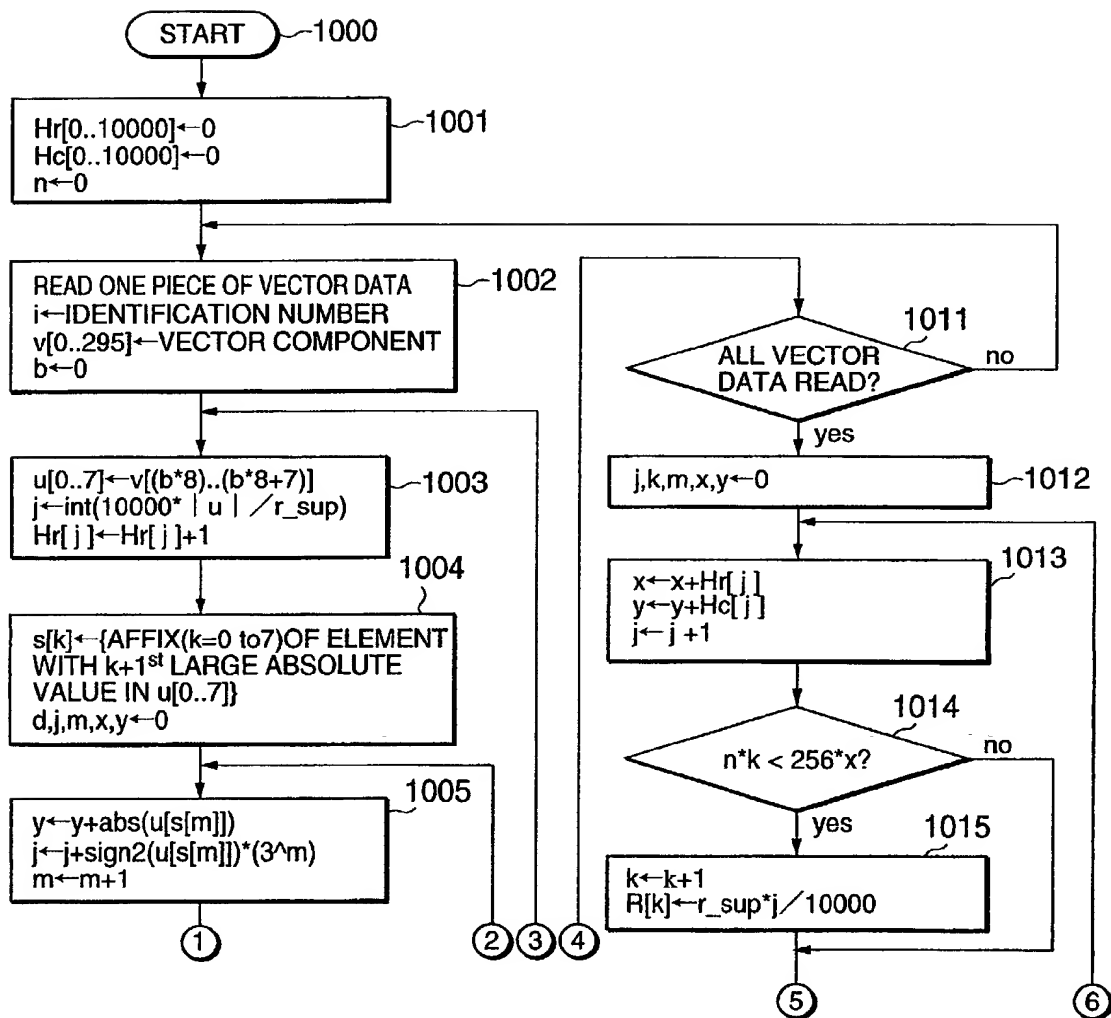


FIG.5B

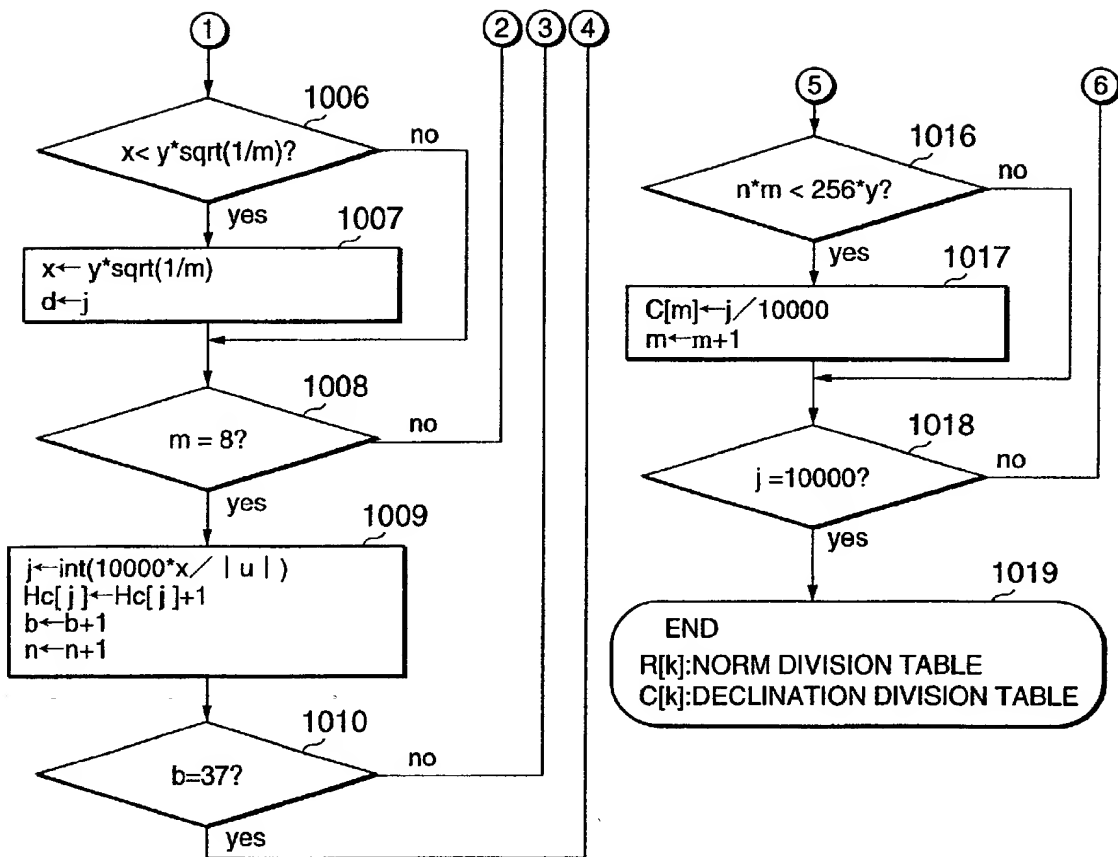


FIG.6A

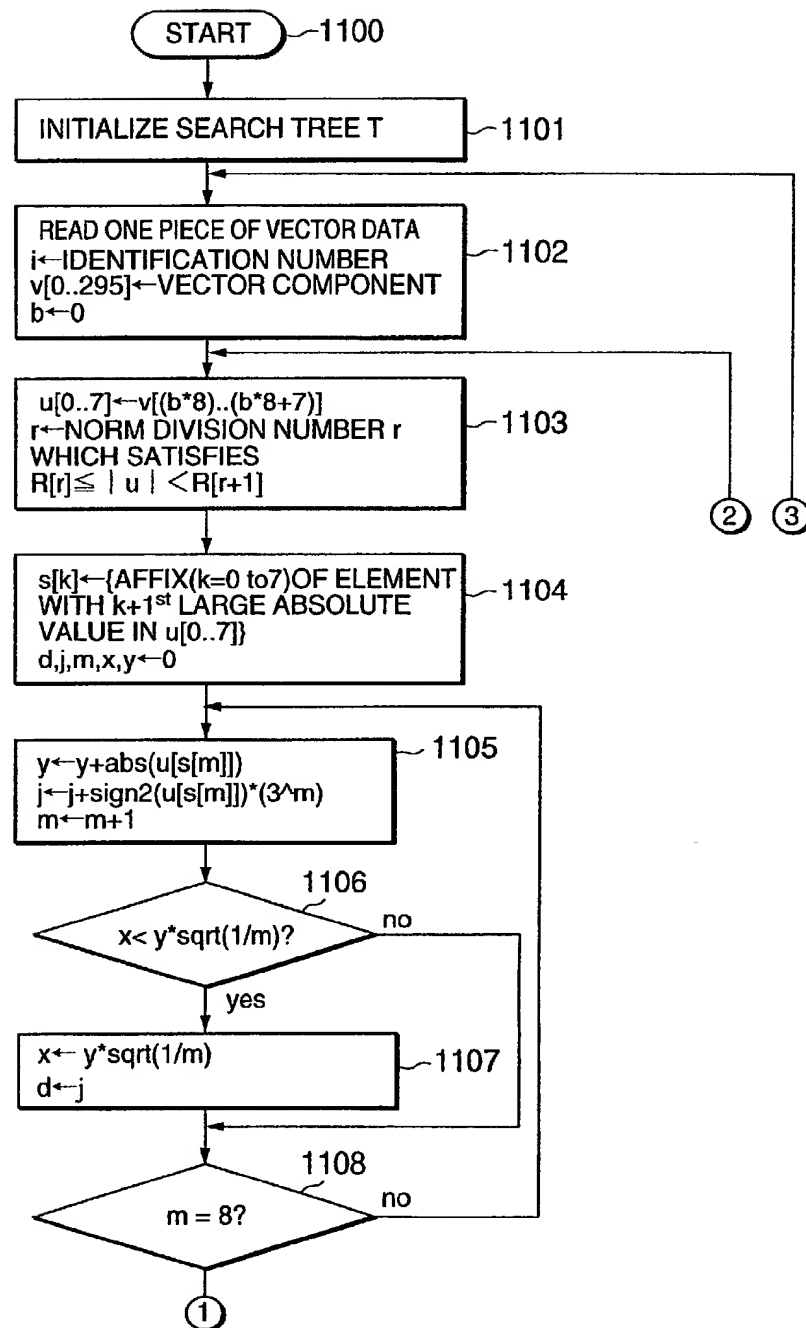


FIG.6B

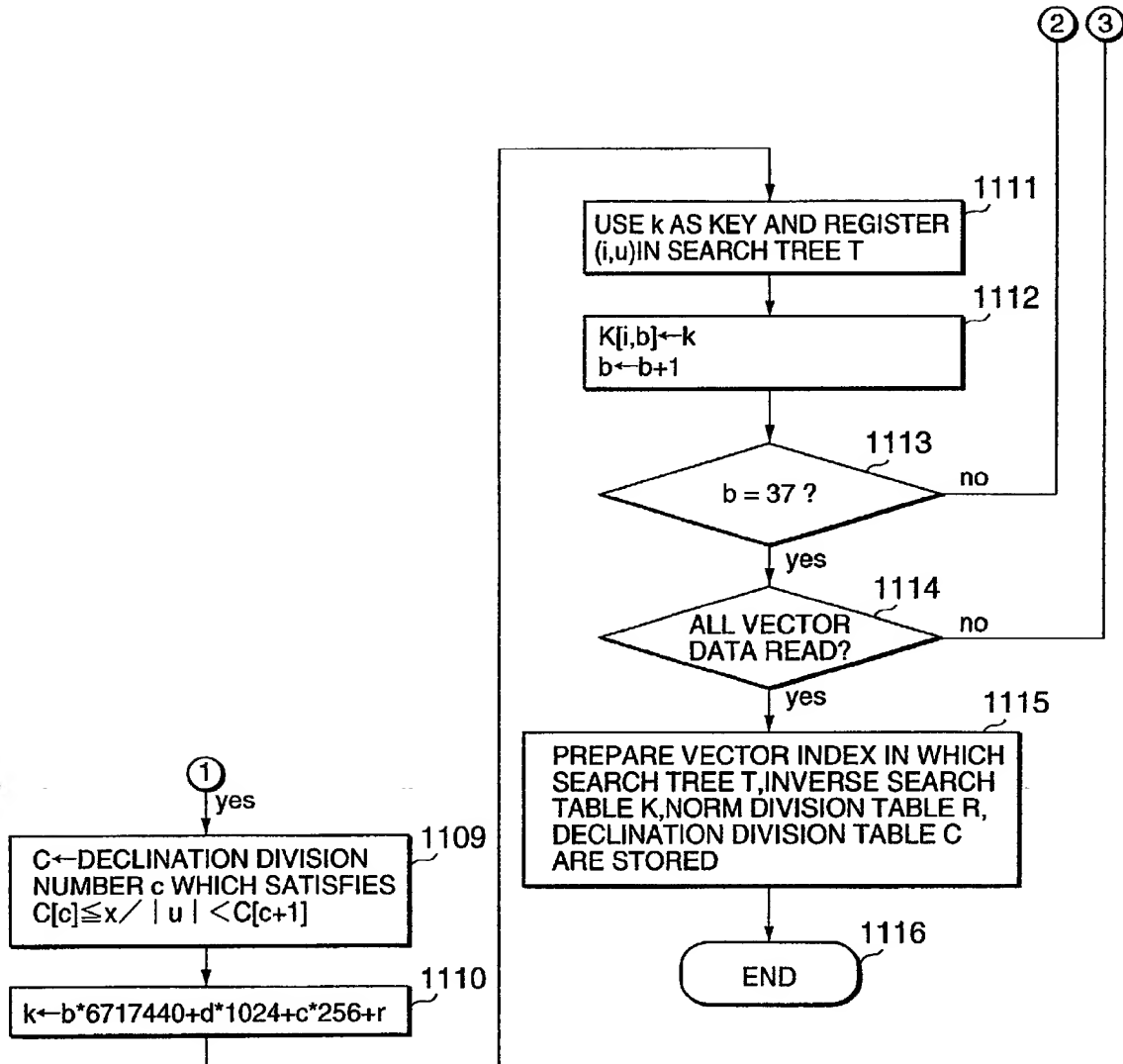


FIG.7A

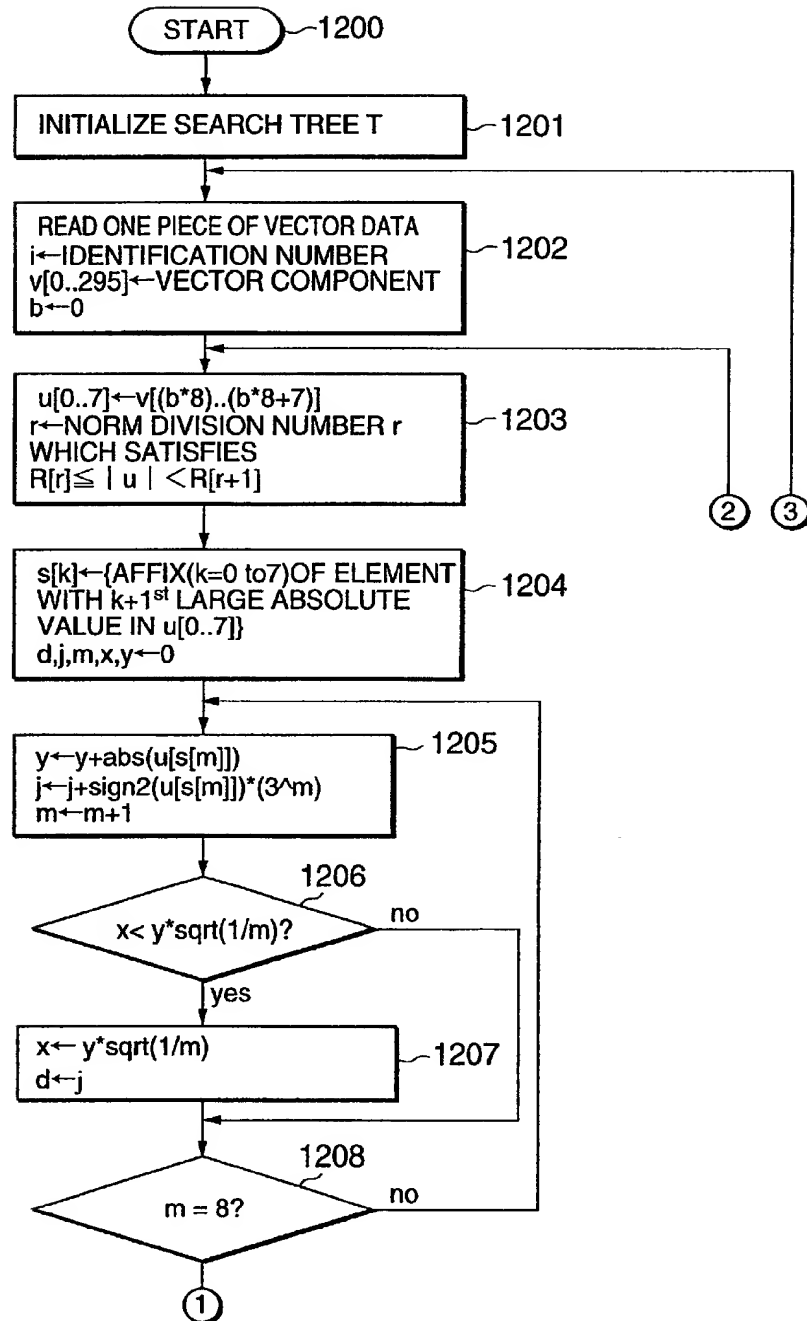


FIG.7B

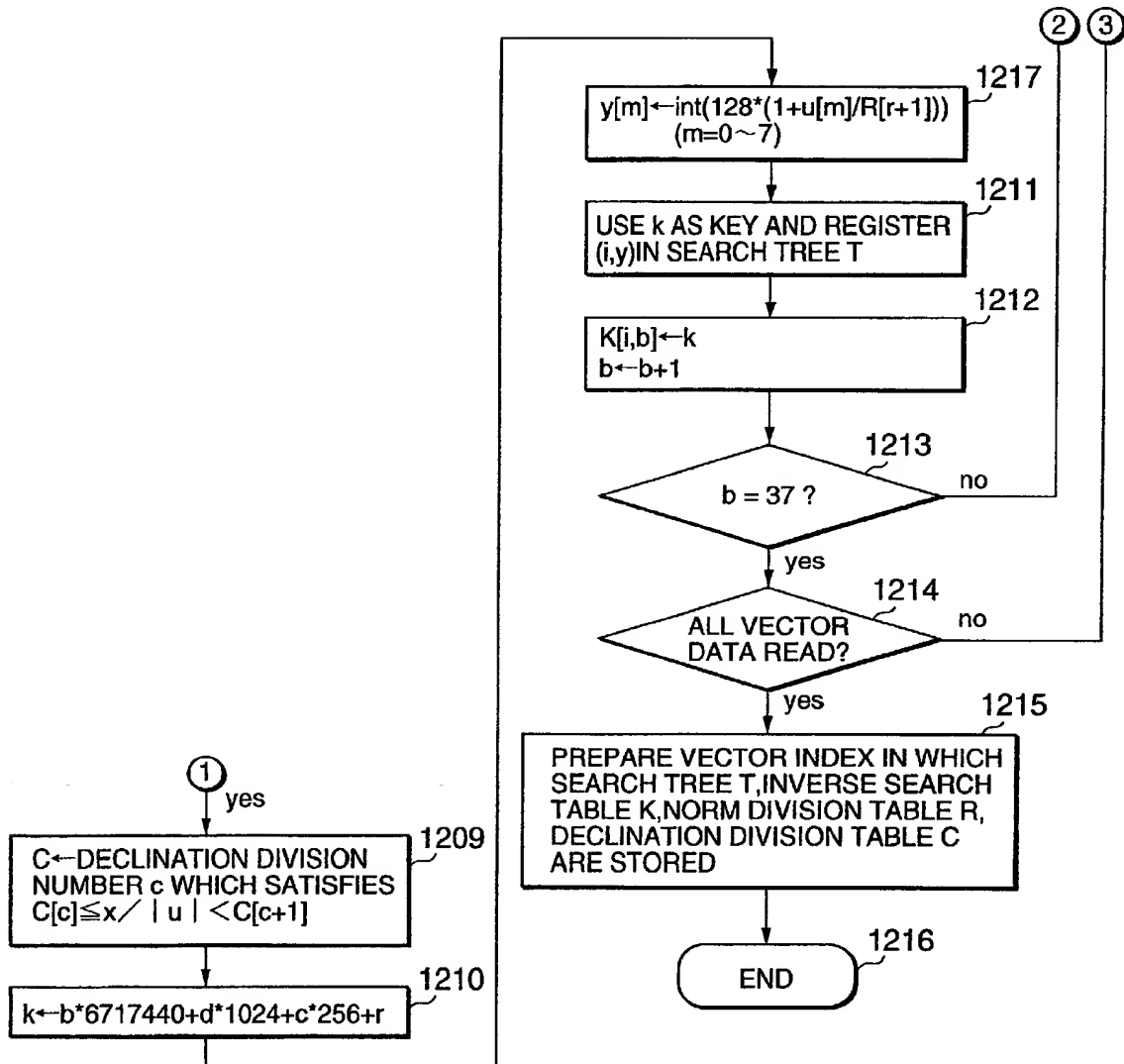
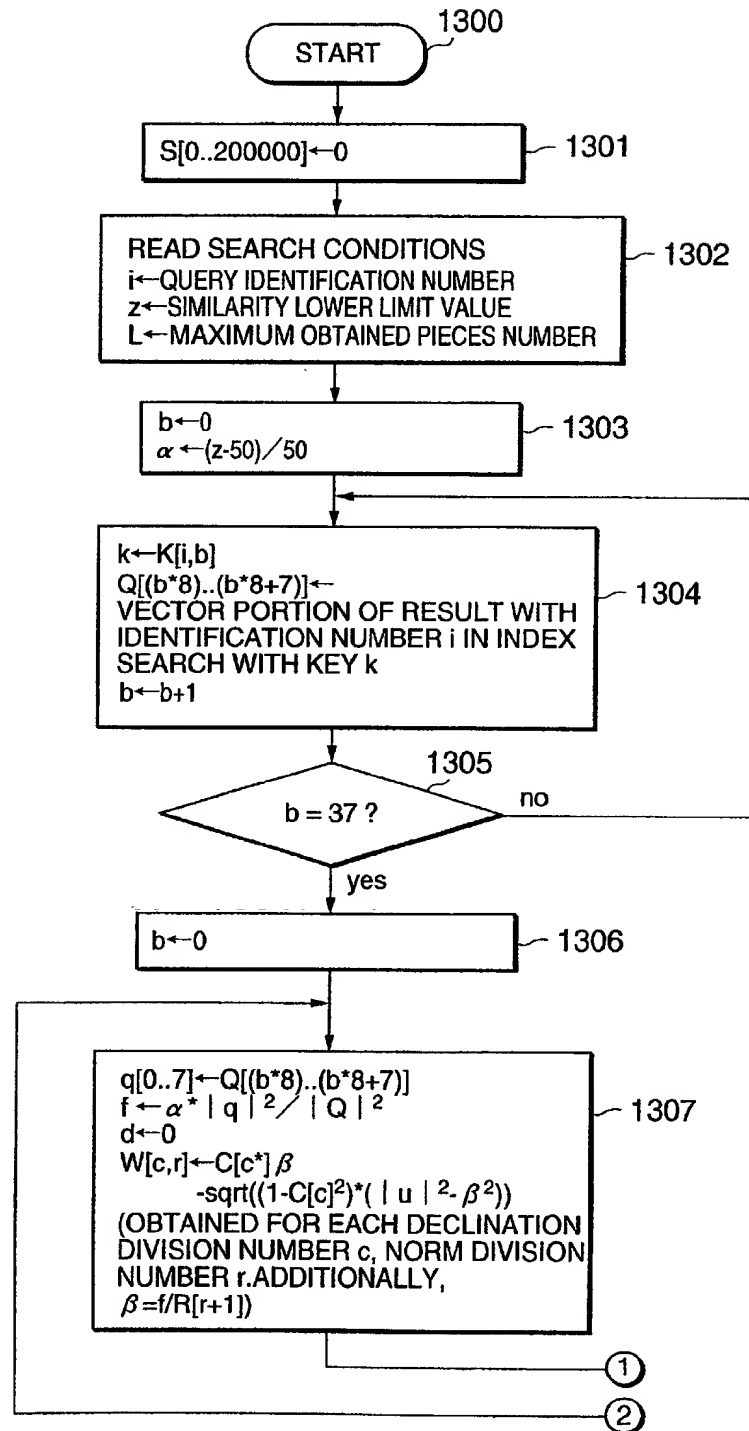


FIG.8A



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FIG.8B

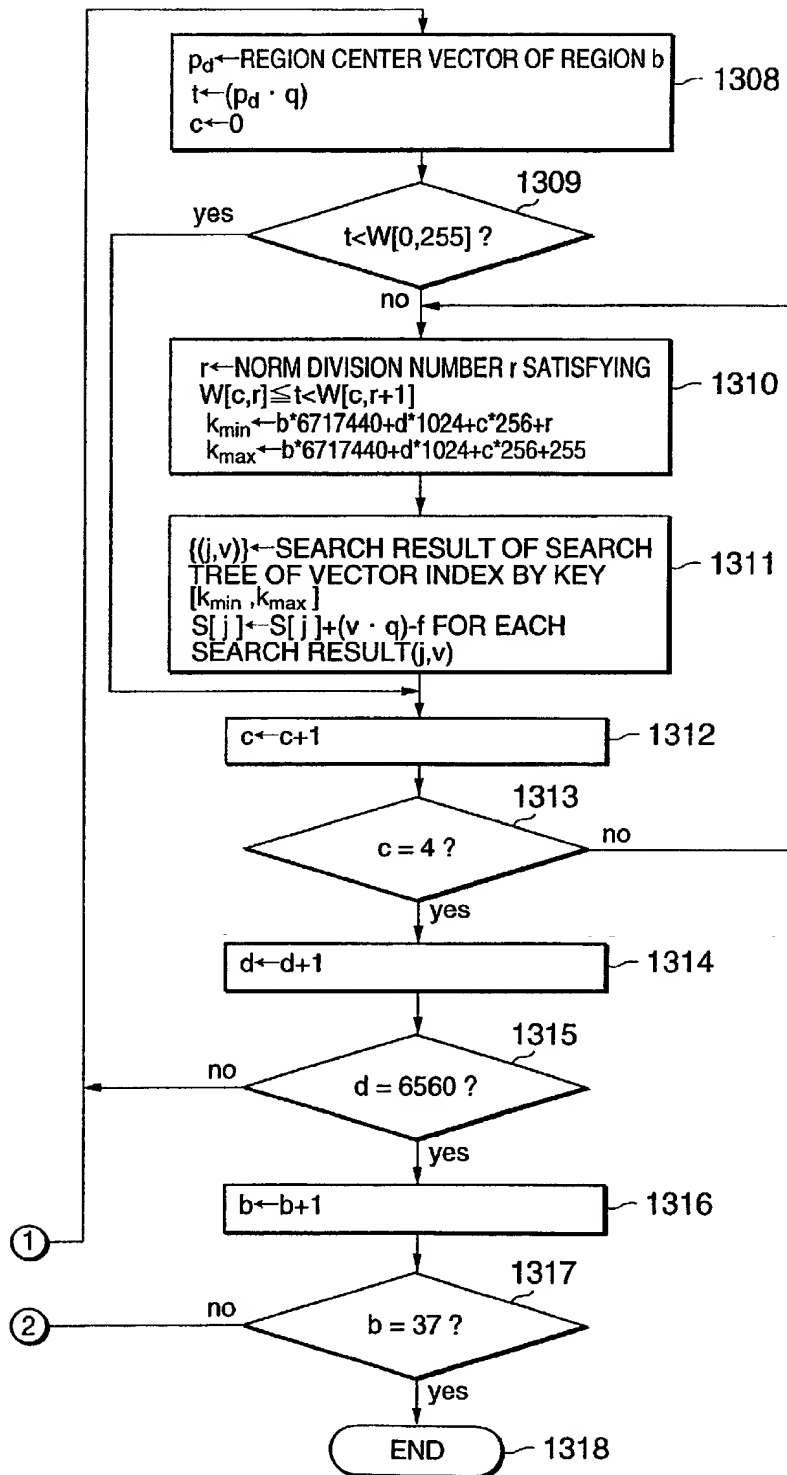


FIG.9

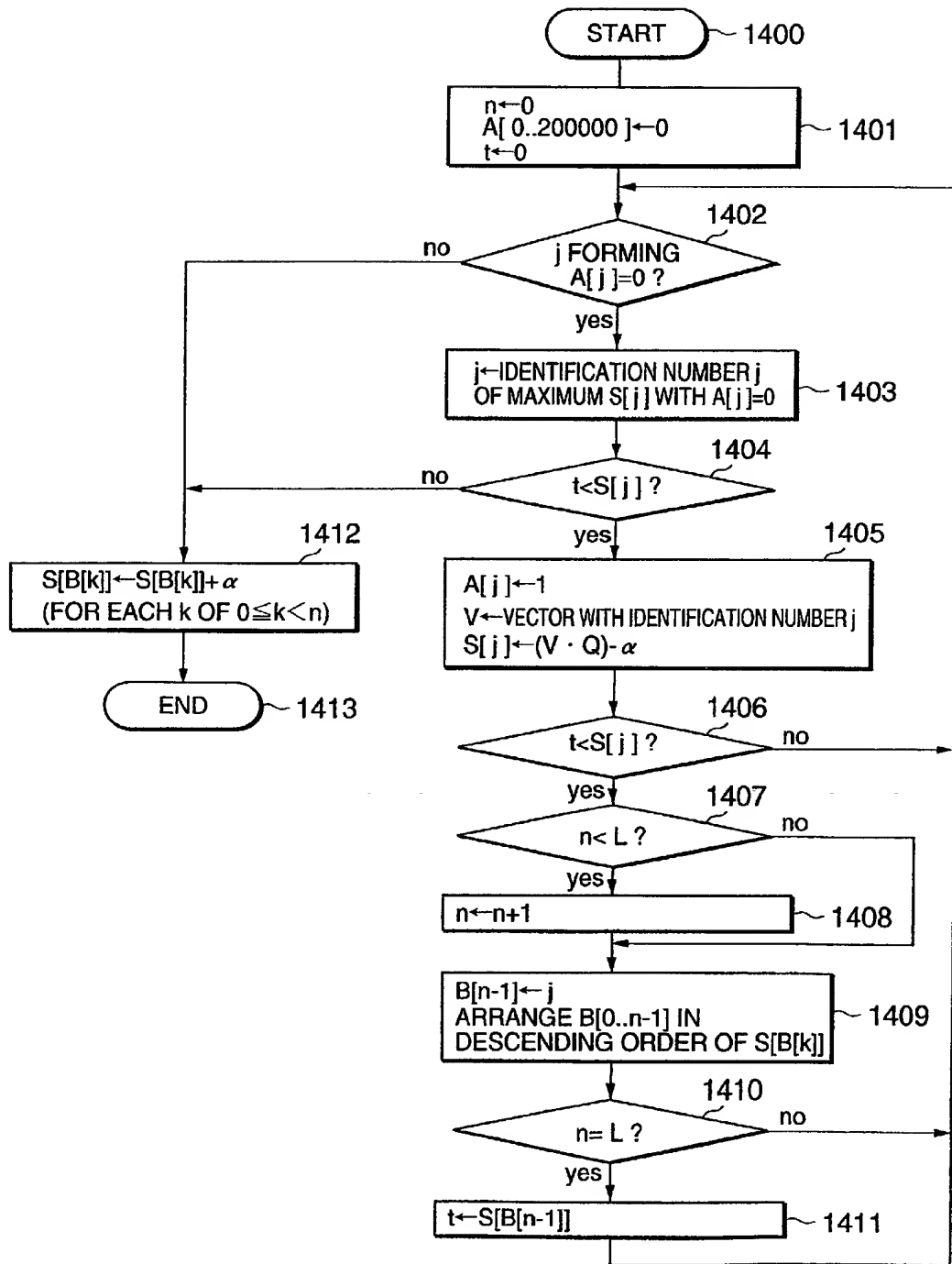


FIG. 10A

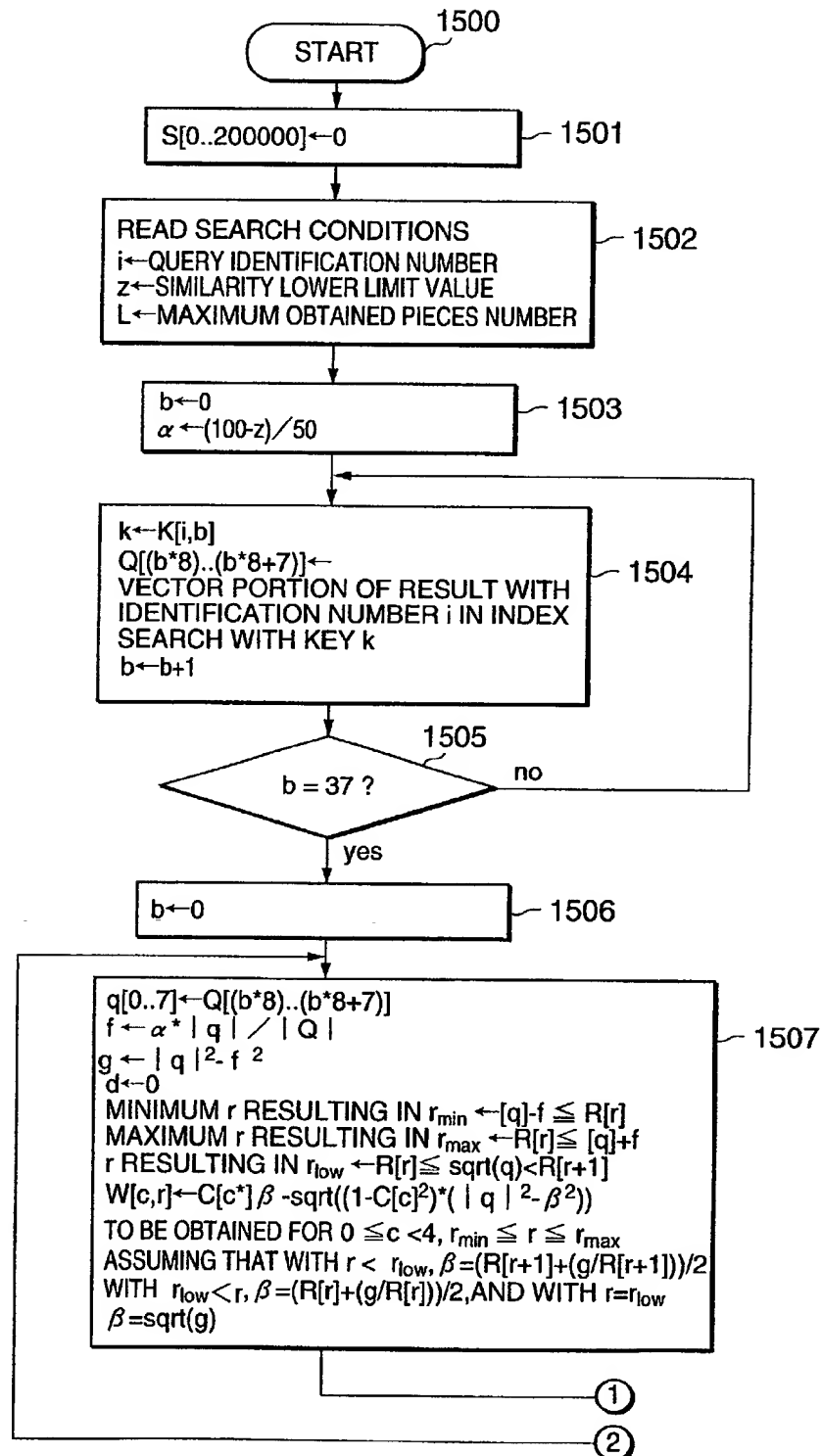


FIG.10B

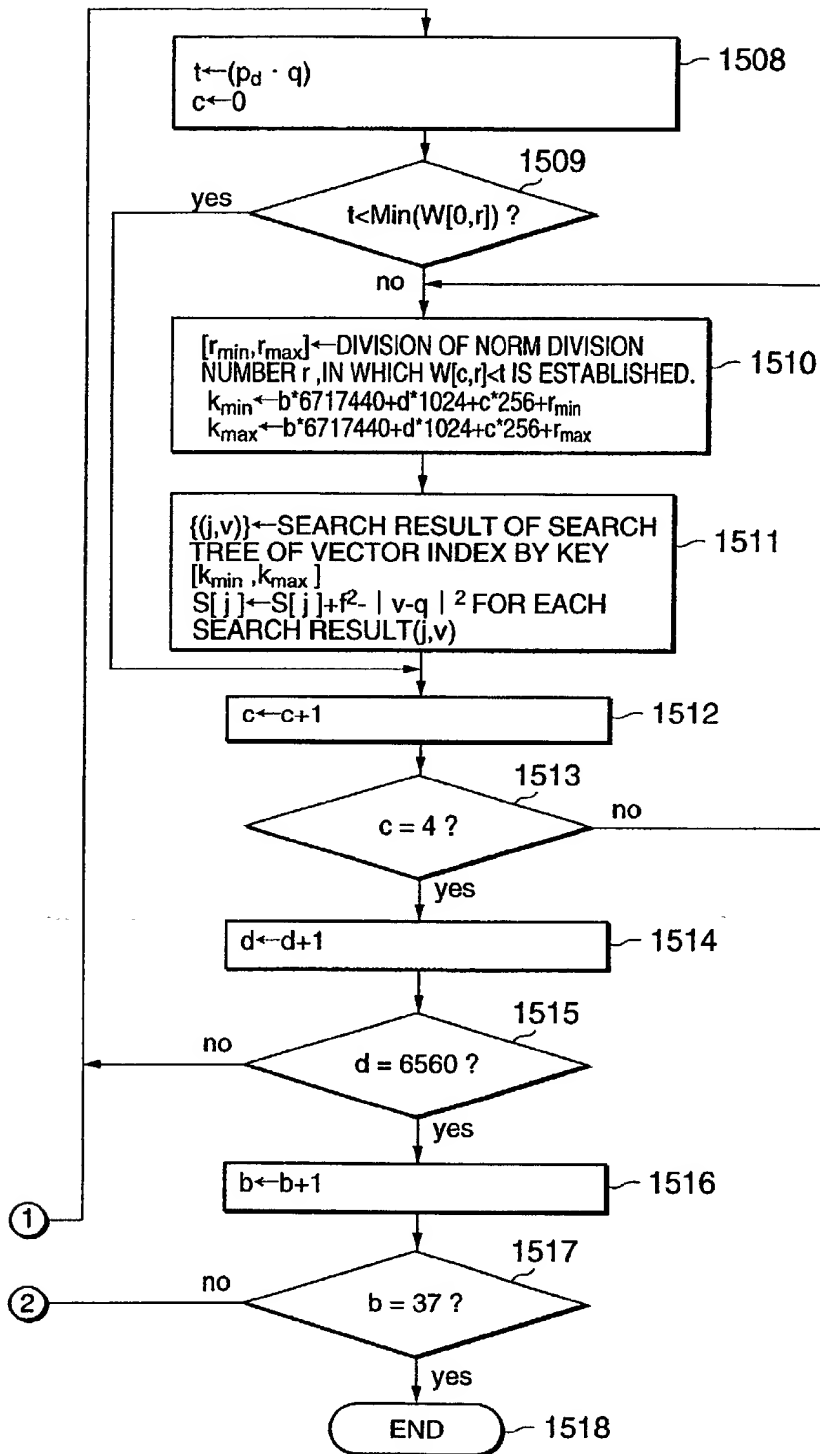


FIG.11A

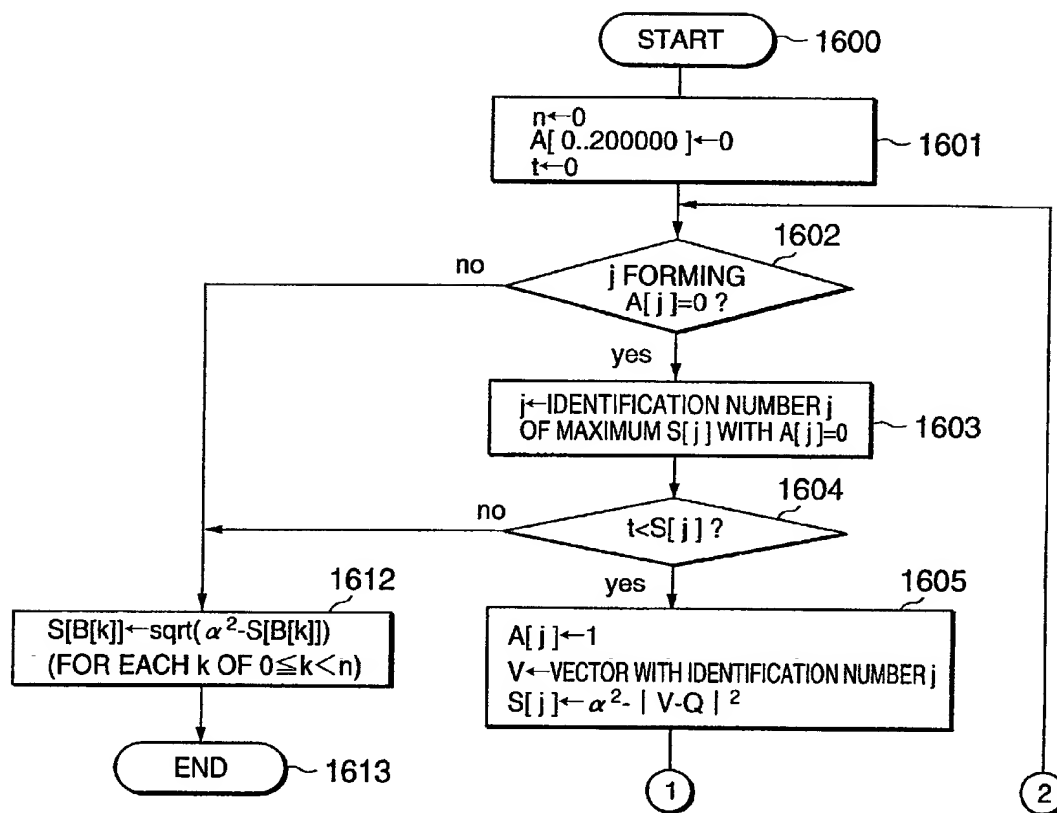


FIG.11B

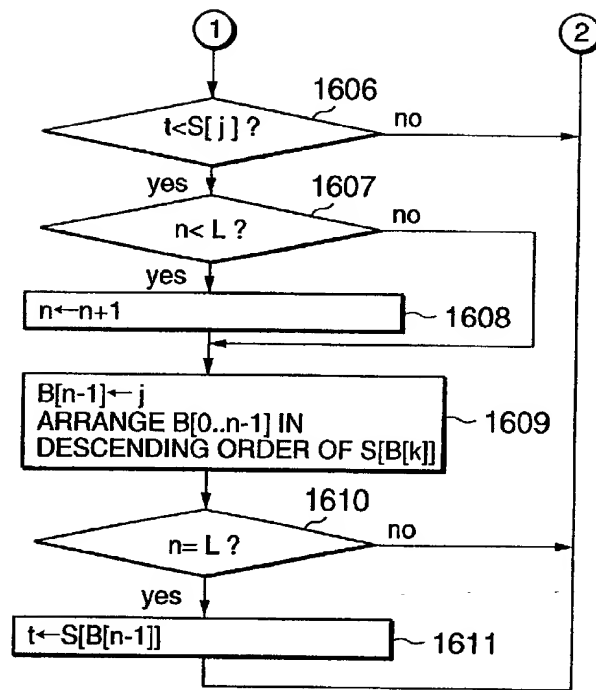


FIG. 12A

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1 +0.029259 -0.016005 -0.021118 +0.024992 -0.006860 -0.009032 -0.007255 -0.007715 -0.025648 +0.016061
 -0.060584 -0.013593 -0.020985 -0.112403 -0.012045 +0.044741 +0.026761 +0.078339 +0.048166 +0.043434
 +0.100093 +0.009913 +0.085770 +0.101257 +0.072163 -0.066112 +0.069376 -0.020159 +0.051960 -0.129138
 -0.028065 +0.027535 +0.028316 +0.050490 +0.015931 -0.040316 -0.013109 -0.014728 -0.004639 -0.021525
 -0.000471 -0.033506 +0.013866 -0.054846 +0.067350 +0.042063 +0.041963 -0.006444 -0.092581 +0.004488
 +0.004741 +0.009351 +0.038429 -0.042254 -0.027641 -0.068727 +0.037185 -0.003393 -0.040649 +0.013169
 +0.020619 +0.025594 -0.019990 -0.117804 +0.005791 -0.027860 +0.000220 -0.038765 -0.023964 +0.020038
 +0.032435 -0.027518 -0.063942 +0.085381 +0.038776 +0.051395 +0.004047 +0.092011 -0.076222 +0.096729
 -0.018331 +0.115754 -0.038478 +0.131147 -0.074560 +0.080634 -0.186932 +0.024004 +0.047046 -0.075571
 +0.121789 -0.055221 -0.001166 -0.053469 -0.086326 -0.111837 -0.060801 +0.222437 -0.055550 -0.117881
 -0.020700 -0.028172 -0.121642 -0.160389 +0.147645 -0.037681 -0.057998 +0.104025 +0.251415 -0.029438
 +0.030504 -0.048312 -0.072984 -0.088780 +0.041684 +0.127138 +0.061804 +0.064147 -0.016586 +0.024305
 +0.060558 -0.004070 +0.094040 -0.011500 +0.000545 +0.083231 +0.016565 +0.081034 +0.073438 -0.006857
 -0.008995 +0.023537 +0.066849 -0.035310 +0.005572 -0.015236 +0.109983 -0.185597 +0.016643 +0.032632
 -0.075726 -0.110307 +0.038577 +0.038475 -0.042287 +0.082878 +0.035997 -0.009888 +0.081286 +0.063583
 -0.041429 +0.025969 -0.040406 +0.006639 +0.032087 +0.007947 +0.041689 +0.040077 +0.067726 -0.101670
 -0.091183 +0.167914 -0.080320 +0.049351 +0.069409 +0.063139 -0.038358 -0.126212 +0.058109 +0.031847
 -0.014998 -0.022995 +0.054876 +0.033124 -0.065283 -0.058574 +0.049729 -0.046552 +0.042485 -0.006179
 -0.058764 +0.079383 +0.000817 -0.001482 -0.036410 -0.036097 -0.045920 -0.001729 +0.039971 +0.083165
 -0.023112 +0.014492 +0.028403 +0.047480 +0.038502 +0.028348 +0.055128 +0.045340 -0.066148 +0.018156
 -0.008535 -0.042836 +0.006119 -0.037691 +0.018055 +0.035741 -0.023394 +0.012401 -0.070880 +0.010066
 -0.013264 -0.031192 -0.064061 -0.026757 -0.028246 +0.078634 +0.013295 +0.011129 +0.028807 +0.012339
 +0.007173 -0.008856 +0.040397 +0.039853 +0.085247 -0.053102 +0.052307 +0.065223 +0.116747 +0.013464
 -0.004875 +0.019186 +0.024114 -0.056101 -0.024008 +0.061251 -0.043466 -0.017640 +0.081001 -0.014824
 -0.003836 +0.059081 +0.051690 -0.032798 +0.039059 +0.020370 +0.015096 +0.051693 +0.015507 -0.041601
 -0.000192 -0.065087 +0.018487 -0.040415 +0.036173 -0.011809 +0.010862 +0.005944 +0.028534 -0.031335
 +0.023075 +0.033037 +0.063589 +0.014185 +0.006539 +0.002593 -0.023986 -0.038277 -0.009555 -0.018987
 +0.052526 +0.035448 +0.013042 +0.023662 +0.011775 -0.055742 -0.008120 -0.040546 -0.023508 -0.069309
 +0.037886 +0.041494 -0.038487 -0.035241 +0.020432 -0.008060 +0.002384 +0.070241 +0.069379 +0.020206
 +0.032996 +0.047815 +0.045106 +0.001794 +0.035342 -0.003895

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FIG. 12B

2	+0.028972	-0.012757	-0.015597	+0.019727	+0.009386	-0.016593	+0.003627	+0.006288	-0.019184	+0.020306
	-0.057163	-0.017815	-0.026345	-0.102036	+0.002587	+0.037785	+0.029168	+0.075061	+0.043901	+0.040040
	+0.123462	+0.001139	+0.085437	+0.108889	+0.052652	-0.048914	+0.060612	-0.005019	+0.030421	-0.153633
	-0.041444	+0.038908	+0.006823	+0.069954	+0.028216	-0.043207	-0.030092	+0.013753	+0.023770	-0.018313
	+0.008825	-0.036443	+0.001076	-0.067721	+0.046034	+0.030717	+0.017880	-0.036936	-0.093124	-0.000883
	+0.027865	+0.007906	+0.005978	-0.024367	-0.012682	-0.054200	+0.025934	+0.000926	-0.047710	+0.009757
	+0.005940	+0.020855	-0.070890	-0.113381	+0.004988	-0.039150	-0.000455	-0.024836	-0.007560	+0.025912
	+0.009004	-0.053047	-0.079142	+0.085440	+0.027876	+0.051104	+0.016944	+0.082277	-0.071359	+0.107308
	+0.005041	+0.112418	-0.009138	+0.119492	-0.069016	+0.123591	-0.166734	+0.032382	+0.005430	-0.030192
	+0.116327	-0.077304	+0.003280	-0.006984	-0.055858	+0.022018	-0.110375	+0.197565	-0.038060	-0.085170
	-0.065823	-0.021350	-0.104387	-0.147696	+0.111377	-0.028678	-0.097095	+0.064212	+0.255376	-0.011000
	+0.020901	-0.032671	-0.092765	-0.063843	+0.008917	+0.106446	+0.070094	+0.078741	-0.012886	-0.003581
	+0.069363	+0.021164	+0.046900	-0.021002	-0.008879	+0.052981	+0.006370	+0.081378	+0.054328	-0.006424
	-0.006277	+0.013635	+0.117156	-0.037470	+0.014036	-0.048765	+0.093100	-0.147319	+0.028556	-0.017833
	-0.070005	-0.123845	+0.013978	+0.006964	-0.047420	+0.100905	-0.019278	-0.009641	+0.057287	+0.058665
	-0.063796	+0.019097	-0.045014	-0.036129	+0.022014	+0.071405	+0.028573	+0.046653	+0.063911	-0.048555
	-0.070203	+0.205558	-0.051782	+0.102727	+0.042066	+0.028359	-0.021939	-0.082837	+0.064817	+0.017215
	-0.042670	-0.031901	+0.037475	+0.055012	-0.012237	-0.067371	+0.072587	-0.009949	+0.053991	+0.019722
	-0.035742	+0.081726	+0.019732	+0.013624	-0.031871	-0.009025	-0.064237	+0.002162	+0.014326	+0.103617
	-0.048376	+0.034422	-0.019797	+0.041018	+0.089878	+0.072000	+0.030657	+0.040709	-0.071603	+0.005629

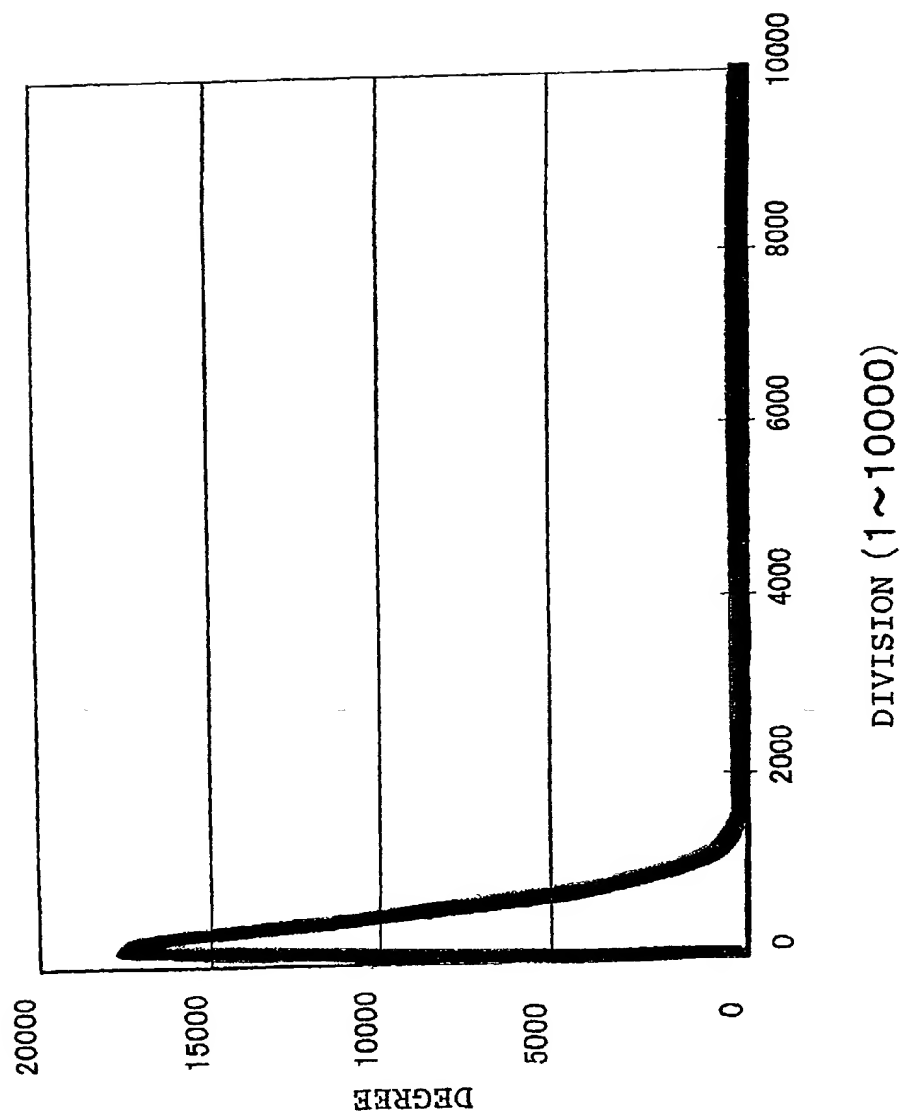
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FIG. 13

EXAMPLE OF NORM DISTRIBUTION



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FIG. 14

EXAMPLE OF DECLINATION DISTRIBUTION

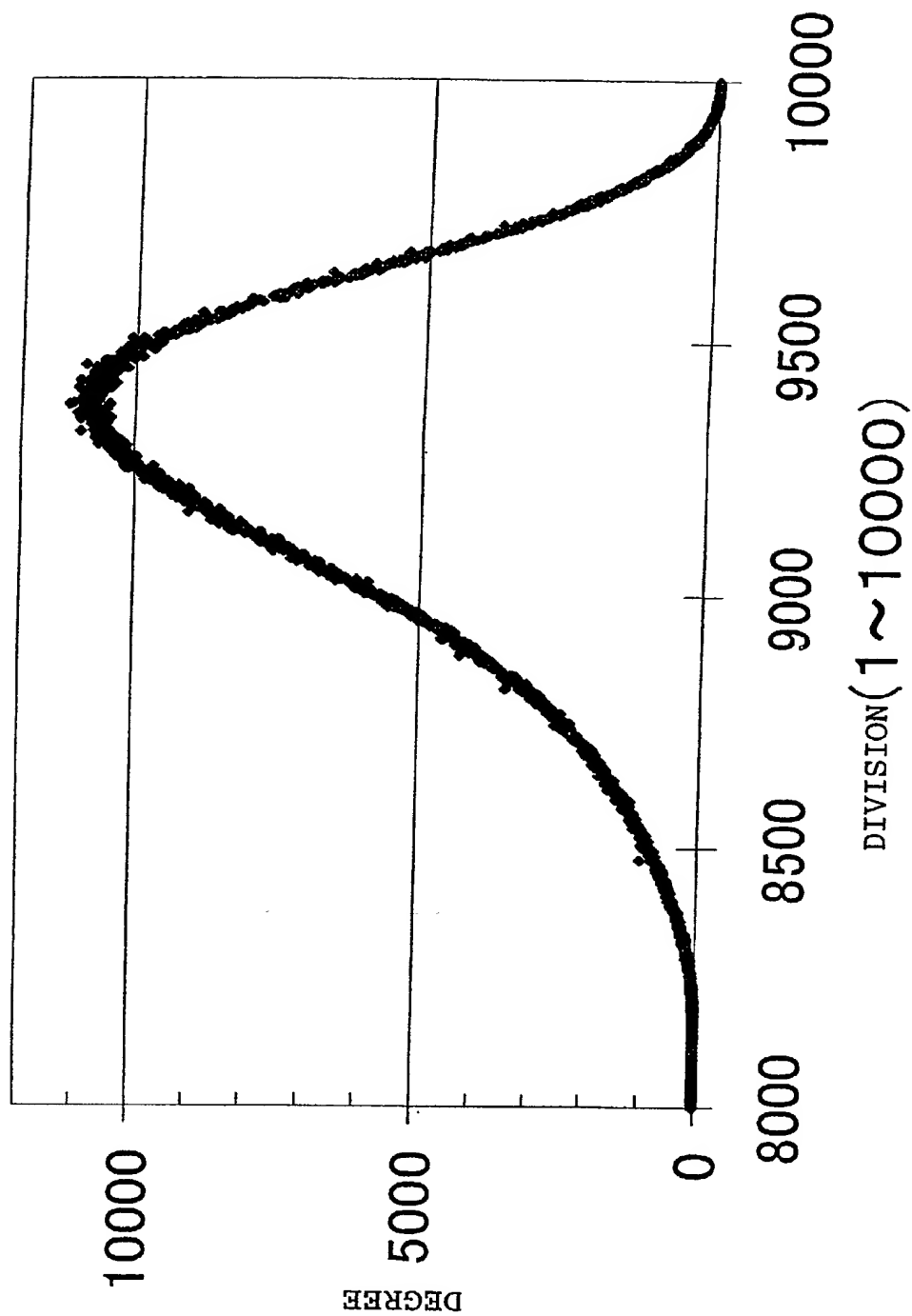


FIG. 15A

EXAMPLE OF NORM DIVISION TABLE (256 DIVISIONS)									
	0	1	2	3	4	5	6	7	8
0	0.00000	0.03320	0.04112	0.04617	0.04999	0.05354	0.05687	0.05940	0.06182
10	0.06585	0.06805	0.06965	0.07121	0.07275	0.07425	0.07572	0.07716	0.07858
20	0.08088	0.08178	0.08312	0.08400	0.08530	0.08616	0.08701	0.08827	0.08910
30	0.09073	0.09194	0.09273	0.09352	0.09431	0.09508	0.09585	0.09662	0.09737
40	0.09887	0.09961	0.10035	0.10108	0.10180	0.10252	0.10324	0.10395	0.10465
50	0.10605	0.10639	0.10708	0.10776	0.10844	0.10912	0.10979	0.11046	0.11145
60	0.11211	0.11276	0.11309	0.11374	0.11438	0.11502	0.11566	0.11598	0.11661
70	0.11786	0.11849	0.11879	0.11941	0.12003	0.12064	0.12094	0.12155	0.12275
80	0.12305	0.12365	0.12424	0.12483	0.12542	0.12571	0.12629	0.12687	0.12745
90	0.12831	0.12888	0.12945	0.13002	0.13030	0.13087	0.13143	0.13198	0.13254
100	0.13337	0.13392	0.13447	0.13501	0.13556	0.13583	0.13637	0.13690	0.13744
110	0.13851	0.13904	0.13956	0.13983	0.14035	0.14087	0.14139	0.14191	0.14243
120	0.14346	0.14397	0.14448	0.14499	0.14549	0.14600	0.14650	0.14700	0.14750

30 17 45 93 9

FIG. 15B

130	0.14849	0.14899	0.14948	0.14997	0.15046	0.15095	0.15143	0.15192	0.15240	0.15288
140	0.15336	0.15408	0.15456	0.15503	0.15551	0.15598	0.15645	0.15715	0.15762	0.15808
150	0.15878	0.15924	0.15970	0.16016	0.16085	0.16131	0.16199	0.16244	0.16289	0.16357
160	0.16402	0.16469	0.16513	0.16580	0.16624	0.16690	0.16734	0.16800	0.16866	0.16909
170	0.16974	0.17039	0.17104	0.17147	0.17211	0.17275	0.17338	0.17402	0.17465	0.17507
180	0.17570	0.17633	0.17716	0.17778	0.17840	0.17902	0.17963	0.18024	0.18106	0.18166
190	0.18227	0.18308	0.18368	0.18447	0.18507	0.18586	0.18665	0.18724	0.18803	0.18881
200	0.18958	0.19036	0.19113	0.19190	0.19266	0.19342	0.19437	0.19512	0.19606	0.19681
210	0.19774	0.19867	0.19959	0.20051	0.20143	0.20252	0.20342	0.20450	0.20540	0.20647
220	0.20754	0.20860	0.20983	0.21087	0.21209	0.21330	0.21450	0.21587	0.21706	0.21858
230	0.21992	0.22142	0.22291	0.22438	0.22602	0.22780	0.22957	0.23148	0.23338	0.23557
240	0.23774	0.24005	0.24249	0.24520	0.24818	0.25142	0.25505	0.25919	0.26369	0.26921
250	0.27595	0.28434	0.29600	0.31512	0.35936	0.49100	0.85733			

FIG. 16

EXAMPLE OF DECLINATION
DIVISION TABLE
(4 DIVISIONS)

DIVISION NUMBER	DIVISION BOUNDARY
0	0.8274
1	0.9079
2	0.9301
3	0.9486
4	1.0000

P00280" 09021600

FIG. 17A

DIVISION 0	1	2	3	4	5	6	7	8	9
b=0, c=0									
0	+9.99999	+0.03142	+0.01968	+0.01436	+0.01008	+0.00750	+0.00536	+0.00355	+0.00220
10	+0.00010	-0.00089	-0.00164	-0.00233	-0.00298	-0.00347	-0.00404	-0.00447	-0.00498
20	-0.00574	-0.00609	-0.00643	-0.00675	-0.00706	-0.00736	-0.00764	-0.00792	-0.00812
30	-0.00857	-0.00881	-0.00904	-0.00921	-0.00938	-0.00959	-0.00975	-0.00996	-0.01010
40	-0.01039	-0.01058	-0.01071	-0.01084	-0.01097	-0.01110	-0.01122	-0.01139	-0.01150
50	-0.01173	-0.01185	-0.01196	-0.01206	-0.01217	-0.01227	-0.01237	-0.01247	-0.01257
60	-0.01276	-0.01286	-0.01292	-0.01301	-0.01310	-0.01319	-0.01327	-0.01336	-0.01344
70	-0.01360	-0.01368	-0.01376	-0.01381	-0.01389	-0.01397	-0.01404	-0.01411	-0.01418
80	-0.01433	-0.01439	-0.01446	-0.01453	-0.01457	-0.01464	-0.01470	-0.01477	-0.01483
90	-0.01496	-0.01502	-0.01508	-0.01514	-0.01519	-0.01525	-0.01531	-0.01536	-0.01542
100	-0.01553	-0.01558	-0.01564	-0.01569	-0.01574	-0.01579	-0.01584	-0.01589	-0.01594
110	-0.01604	-0.01609	-0.01613	-0.01618	-0.01623	-0.01627	-0.01633	-0.01638	-0.01642
120	-0.01651	-0.01656	-0.01661	-0.01665	-0.01669	-0.01673	-0.01678	-0.01682	-0.01686
130	-0.01695	-0.01699	-0.01704	-0.01708	-0.01712	-0.01717	-0.01720	-0.01725	-0.01729
140	-0.01737	-0.01741	-0.01745	-0.01749	-0.01753	-0.01757	-0.01761	-0.01766	-0.01769
150	-0.01777	-0.01780	-0.01784	-0.01788	-0.01792	-0.01796	-0.01800	-0.01804	-0.01808
160	-0.01816	-0.01819	-0.01823	-0.01827	-0.01830	-0.01835	-0.01838	-0.01842	-0.01846
170	-0.01854	-0.01857	-0.01861	-0.01864	-0.01868	-0.01872	-0.01875	-0.01879	-0.01883
180	-0.01891	-0.01894	-0.01898	-0.01902	-0.01906	-0.01909	-0.01913	-0.01917	-0.01920
190	-0.01928	-0.01932	-0.01936	-0.01939	-0.01943	-0.01947	-0.01951	-0.01955	-0.01958
200	-0.01966	-0.01970	-0.01974	-0.01978	-0.01982	-0.01986	-0.01990	-0.01994	-0.01998
210	-0.02006	-0.02010	-0.02015	-0.02019	-0.02023	-0.02027	-0.02032	-0.02036	-0.02040
220	-0.02049	-0.02054	-0.02059	-0.02063	-0.02068	-0.02073	-0.02078	-0.02083	-0.02088
230	-0.02099	-0.02104	-0.02110	-0.02116	-0.02121	-0.02128	-0.02134	-0.02140	-0.02147
240	-0.02161	-0.02169	-0.02177	-0.02185	-0.02194	-0.02204	-0.02215	-0.02227	-0.02241
250	-0.02275	-0.02299	-0.02334	-0.02401	-0.02527				-0.02256

FIG. 17B

b=0, c=3	
0	+9.99999 +0.04126 +0.03220 +0.02771 +0.02395 +0.02162 +0.01966 +0.01798 +0.01672 +0.01559
10	+0.01473 +0.01378 +0.01306 +0.01239 +0.01176 +0.01129 +0.01073 +0.01030 +0.00980 +0.00942
20	+0.00905 +0.00871 +0.00837 +0.00805 +0.00774 +0.00744 +0.00715 +0.00688 +0.00658 +0.00642
30	+0.00623 +0.00598 +0.00575 +0.00558 +0.00541 +0.00519 +0.00503 +0.00482 +0.00457 +0.00452
40	+0.00438 +0.00419 +0.00405 +0.00392 +0.00378 +0.00365 +0.00353 +0.00336 +0.00324 +0.00312
50	+0.00300 +0.00289 +0.00278 +0.00267 +0.00256 +0.00245 +0.00235 +0.00224 +0.00214 +0.00204
60	+0.00194 +0.00185 +0.00178 +0.00169 +0.00160 +0.00151 +0.00142 +0.00133 +0.00124 +0.00116
70	+0.00107 +0.00099 +0.00091 +0.00085 +0.00077 +0.00070 +0.00062 +0.00054 +0.00047 +0.00039
80	+0.00032 +0.00025 +0.00018 +0.00010 +0.00006 +0.00001 -0.00008 -0.00015 -0.00021 -0.00028
90	-0.00034 -0.00040 -0.00047 -0.00053 -0.00059 -0.00065 -0.00071 -0.00077 -0.00083 -0.00089
100	-0.00094 -0.00100 -0.00106 -0.00111 -0.00117 -0.00122 -0.00127 -0.00133 -0.00138 -0.00143
110	-0.00148 -0.00153 -0.00158 -0.00163 -0.00168 -0.00173 -0.00179 -0.00184 -0.00189 -0.00193
120	-0.00198 -0.00204 -0.00208 -0.00213 -0.00217 -0.00221 -0.00227 -0.00231 -0.00236 -0.00241
130	-0.00245 -0.00249 -0.00255 -0.00259 -0.00263 -0.00268 -0.00272 -0.00277 -0.00281 -0.00286
140	-0.00289 -0.00294 -0.00298 -0.00303 -0.00306 -0.00311 -0.00316 -0.00320 -0.00324 -0.00328
150	-0.00333 -0.00336 -0.00340 -0.00345 -0.00349 -0.00353 -0.00357 -0.00361 -0.00366 -0.00370
160	-0.00374 -0.00378 -0.00382 -0.00386 -0.00389 -0.00394 -0.00398 -0.00402 -0.00406 -0.00410
170	-0.00414 -0.00418 -0.00423 -0.00426 -0.00430 -0.00434 -0.00438 -0.00442 -0.00446 -0.00451
180	-0.00455 -0.00458 -0.00463 -0.00467 -0.00470 -0.00474 -0.00478 -0.00483 -0.00486 -0.00491
190	-0.00494 -0.00499 -0.00503 -0.00507 -0.00511 -0.00515 -0.00519 -0.00523 -0.00527 -0.00532
200	-0.00536 -0.00540 -0.00544 -0.00548 -0.00553 -0.00557 -0.00562 -0.00566 -0.00571 -0.00575
210	-0.00579 -0.00584 -0.00589 -0.00593 -0.00598 -0.00602 -0.00607 -0.00612 -0.00617 -0.00622
220	-0.00627 -0.00632 -0.00637 -0.00642 -0.00647 -0.00653 -0.00658 -0.00663 -0.00669 -0.00675
230	-0.00680 -0.00686 -0.00692 -0.00699 -0.00705 -0.00712 -0.00719 -0.00726 -0.00733 -0.00741
240	-0.00749 -0.00757 -0.00766 -0.00775 -0.00786 -0.00797 -0.00808 -0.00821 -0.00837 -0.00854
250	-0.00875 -0.00901 -0.00941 -0.01015 -0.01157

FIG. 18A

DIVISION	0	1	2	3	4	5	6	7	8	9
b=0, c=0										
0	+9.99999	+0.03665	+0.03356	+0.03363	+0.03460	+0.03613	+9.99999	+9.99999	+9.99999	+9.99999
b=0, c=1										
0	+9.99999	+0.03869	+0.03581	+0.03588	+0.03678	+0.03821	+9.99999	+9.99999	+9.99999	+9.99999
b=0, c=2										
0	+9.99999	+0.04164	+0.03912	+0.03918	+0.03997	+0.04122	+9.99999	+9.99999	+9.99999	+9.99999
b=0, c=3										
0	+9.99999	+0.04476	+0.04275	+0.04280	+0.04344	+0.04444	+9.99999	+9.99999	+9.99999	+9.99999
b=1, c=0										
60	+9.99999	+9.99999	+9.99999	+0.11286	+0.11079	+0.10939	+0.10827	+0.10731	+0.10648	+0.10573
70	+0.10506	+0.10444	+0.10387	+0.10335	+0.10302	+0.10255	+0.10212	+0.10171	+0.10133	+0.10097
80	+0.10064	+0.10032	+0.10003	+0.09975	+0.09949	+0.09932	+0.09909	+0.09887	+0.09866	+0.09846
90	+0.09828	+0.09811	+0.09795	+0.09781	+0.09767	+0.09754	+0.09742	+0.09731	+0.09722	+0.09712
100	+0.09704	+0.09697	+0.09690	+0.09685	+0.09679	+0.09675	+0.09671	+0.09669	+0.09666	+0.09665
110	+0.09663	+0.09663	+0.09664	+0.09665	+0.09666	+0.09668	+0.09671	+0.09675	+0.09679	+0.09684
120	+0.09689	+0.09694	+0.09703	+0.09709	+0.09717	+0.09725	+0.09733	+0.09745	+0.09754	+0.09764
130	+0.09778	+0.09789	+0.09800	+0.09816	+0.09829	+0.09842	+0.09860	+0.09875	+0.09894	+0.09910
140	+0.09931	+0.09947	+0.09970	+0.09988	+0.10012	+0.10031	+0.10057	+0.10084	+0.10112	+0.10134
150	+0.10163	+0.10194	+0.10218	+0.10252	+0.10286	+0.10322	+0.10359	+0.10397	+0.10438	+0.10480
160	+0.10524	+0.10571	+0.10620	+0.10672	+0.10727	+0.10787	+0.10868	+0.10941	+0.11023	+0.11149
170	+0.11287	+9.99999	+9.99999	+9.99999	+9.99999	+9.99999	+9.99999	+9.99999	+9.99999	+9.99999

$$b=1, c=1$$
[illegible]

FIG. 18C

b=1, c=2

60	+9.99999	+9.99999	+9.99999	+0.12564	+0.12403	+0.12294	+0.12206	+0.12131	+0.12065	+0.12006
70	+0.11951	+0.11902	+0.11856	+0.11814	+0.11787	+0.11749	+0.11714	+0.11681	+0.11650	+0.11621
80	+0.11594	+0.11568	+0.11544	+0.11521	+0.11500	+0.11486	+0.11467	+0.11449	+0.11431	+0.11415
90	+0.11400	+0.11386	+0.11373	+0.11361	+0.11350	+0.11339	+0.11329	+0.11321	+0.11312	+0.11305
100	+0.11298	+0.11292	+0.11286	+0.11282	+0.11277	+0.11274	+0.11271	+0.11268	+0.11267	+0.11265
110	+0.11264	+0.11264	+0.11264	+0.11265	+0.11266	+0.11268	+0.11270	+0.11274	+0.11277	+0.11281
120	+0.11285	+0.11290	+0.11297	+0.11302	+0.11308	+0.11315	+0.11322	+0.11331	+0.11339	+0.11347
130	+0.11359	+0.11368	+0.11377	+0.11391	+0.11401	+0.11412	+0.11427	+0.11439	+0.11455	+0.11467
140	+0.11485	+0.11498	+0.11517	+0.11532	+0.11552	+0.11567	+0.11588	+0.11610	+0.11633	+0.11651
150	+0.11675	+0.11700	+0.11720	+0.11747	+0.11774	+0.11803	+0.11833	+0.11864	+0.11897	+0.11931
160	+0.11966	+0.12003	+0.12043	+0.12084	+0.12128	+0.12175	+0.12239	+0.12296	+0.12361	+0.12458
170	+0.12564	+9.99999	+9.99999	+9.99999	+9.99999	+9.99999	+9.99999	+9.99999	+9.99999	+9.99999